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```
#Demonstrate fibonacci using recursion
In [22]:
         def recur_fibo(n):
            if n <= 1:
                 return n
            else:
                 return(recur fibo(n-1) + recur fibo(n-2))
         nterms = 10
         # check if the number of terms is valid
         if nterms <= 0:</pre>
            print("Plese enter a positive integer")
         else:
            print("Fibonacci sequence:")
             for i in range(nterms):
                 print(recur_fibo(i))
         Fibonacci sequence:
         1
         1
         2
         3
         5
         8
         13
         21
         34
In [21]: dict={"Id":41,
                "name": "sapna",
                "join_date":"28/04/2024",
                "job description":"frontend developer",
                "salary":99000
         print(dict)
         def display_full_name(name):
              parts=name.split()
              prefix=parts[0]
              first name=parts[1]
              last name=parts[-1]
              return(prefix , first name, last name)
         employee=[]
         employee.append({"empid":1, "name":" Sapna B","join_date":"02/07/2024","salary":97
         employee.append({"empid":2, "name":"Akshata K","join_date":"05/07/2024","salary":8
         employee.append({"empid":3, "name":"Jyoti P","join_date":"07/07/2024","salary":720
         employee.append({"empid":4, "name":"Shivani J", "join_date":"09/07/2024", "salary":6
         employee.append({"empid":5, "name":"Sushmita J","join_date":"11/07/2024","salary":
         print(employee)
         #senior most employee
         senior_employee=max(employee,key=lambda emp: emp["join_date"])
         print("\n\nSenior most employee: ",display_full_name(senior_employee["name"]))
         #employee added
         employee.append({"empid":6, "name":"Deppa H", "join_date": "13/07/2024", "salary":9100
         print("new employee is added")
```

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print(employee)
#employee removed
removed_employee= employee[2]
print("Removed Employee: ",display full name(removed employee["name"]))
#sorting
employee.sort(key=lambda emp: emp["name"])
#display full name
print("\n Employee list: ")
for emp in employee:
     print(display full name(emp["name"]))
#salary is above 80000
print("The Employee whose salary is greater than 80000: ")
for emp in employee:
     if emp["salary"]>80000:
         print(display_full_name(emp["name"]))
{'Id': 41, 'name': 'sapna', 'join_date': '28/04/2024', 'job description': 'fronten
d developer', 'salary': 99000}
[{'empid': 1, 'name': 'Sapna B', 'join_date': '02/07/2024', 'salary': 97000}, {'e
mpid': 2, 'name': 'Akshata K', 'join_date': '05/07/2024', 'salary': 87000}, {'empi
d': 3, 'name': 'Jyoti P', 'join_date': '07/07/2024', 'salary': 72000}, {'empid':
4, 'name': 'Shivani J', 'join_date': '09/07/2024', 'salary': 66000}, {'empid': 5,
'name': 'Sushmita J', 'join_date': '11/07/2024', 'salary': 83000}]
Senior most employee: ('Sushmita', 'J', 'J')
new employee is added
[{'empid': 1, 'name': 'Sapna B', 'join_date': '02/07/2024', 'salary': 97000}, {'e
mpid': 2, 'name': 'Akshata K', 'join_date': '05/07/2024', 'salary': 87000}, {'empi
d': 3, 'name': 'Jyoti P', 'join_date': '07/07/2024', 'salary': 72000}, {'empid':
4, 'name': 'Shivani J', 'join_date': '09/07/2024', 'salary': 66000}, {'empid': 5,
'name': 'Sushmita J', 'join_date': '11/07/2024', 'salary': 83000}, {'empid': 6, 'n
ame': 'Deppa H', 'join_date': '13/07/2024', 'salary': 91000}]
Removed Employee: ('Jyoti', 'P', 'P')
 Employee list:
('Sapna', 'B', 'B')
('Akshata', 'K', 'K')
('Deppa', 'H', 'H')
('Jyoti', 'P', 'P')
('Shivani', 'J', 'J')
('Sushmita', 'J', 'J')
The Employee whose salary is greater than 80000:
('Sapna', 'B', 'B')
('Akshata', 'K', 'K')
('Deppa', 'H', 'H')
('Sushmita', 'J', 'J')
```